

In the Claims

- 1) An apparatus comprising:
 - a power supply
 - a charging sequence device, coupled to the power supply, the charging sequence device configured to be connected to multiple rechargeable separate devices, and to charge the multiple rechargeable separate devices sequentially.
- 2) The apparatus of claim 1, wherein the power supply is programmable.
- 3) The apparatus of claim 2, wherein the charging sequence device is further configured to charge the multiple rechargeable separate devices sequentially with a different voltage level on the separate devices.
- 4) The apparatus of claim 3, wherein the power supply is a single power supply.
- 5) The apparatus of claim 4, wherein the charging sequence device comprises a single in port to receive power and multiple out ports to provide power to multiple rechargeable separate devices, and a switching array to pass through resistor values from connections to the multiple rechargeable devices to the power supply.
- 6) The apparatus of claim 4, wherein the charging sequence device further comprises a microcontroller configured to control the charge sequencing among the multiple rechargeable devices.
- 7) The apparatus of claim 6, wherein the microcontroller is further configured to sense when a rechargeable device is finished charging by observing a drop in a steady-state current, and in response the microcontroller is configured to shift charging to a separate rechargeable device.
- 8) The apparatus of claim 2, wherein the charging sequence device is further configured to query the multiple rechargeable separate devices connected to the charging

sequence device to obtain information of each device to determine respective power requirements for the multiple rechargeable separate devices.

9) The apparatus of claim 2, wherein the charging sequence device is further configured to query the multiple rechargeable separate devices connected to the charging sequence device to obtain information of each device to generate device priority of powering among the multiple rechargeable separate devices.

10) The apparatus of claim 2, wherein the charging sequence device is further configured to block power to one of the multiple rechargeable devices that is not ready to receive power.